

PRODUCTION COST OF DIFFERENT CROPS/HECTARE.

01. Production cost of Boro Rice

A. Non-material input cost/Operational cost-

Sl. No	Item of Operations	Pairs of bullock (200tk/pair)	No. of labour (200 tk/la.)	Cost/ha
01.	Preparation seedbed for raising seedlings (500 m ²).	2	2	800
02.	Nursing of seedbed.	-	4	800
03.	Uprooting of seedlings and carrying.	-	10	2,000
04.	Preparation of land by 6 ploughing,cross ploughing and laddering.	6X7=42	42	16,800
05.	Trimming of ails,spading of corner,breaking of clods and removal of weeds and stubble	-	10	2,000
06.	Application of manure and fertilizer.	-	3	600
07.	Transplanting of seedlings.	-	45	9,000
08.	2 weeding.	-	2X20=40	8,000
09.	Top dressing of Urea.	-	3	600
10.	5 irrigation.	-	3X5=15	3,000
11.	Harvesting and Carrying.	-	40	8,000
12.	Threshing,cleaning,drying and storing.	7	20	5,400
13.	Drying of straw and heaping.	-	10	2,000

Total- 59,000 tk.

- Total Non-material input cost-59,000 tk.

B. Material input cost-

Sl. no	Name of inputs	Quantity required (kg/ha)	Price/rate (tk/kg)	Cost/ha (tk)
01.	Seeds	25	35	875
02.	A.Urea	300	16	4,800
	B.TSP	100	35	3,500
	C.MoP	70	14	980
	D.Gypsum	60	8	480
	E.ZnSO ₄	10	90	900
03.	Pesticides			500

04.	Irrigation			5,000
05..	Miscellaneous			500

Total- 17,535 tk.

- Total material input cost-17,535 tk.
- Total input cost- $59,000+17,535= 76,535$ tk.

C. Overhead Cost-

Sl. no	Items	Cost/ha (tk)
01.	Interest on total input cost @ 10 tk/annum for a period of 6 month's.	3,826.75
02.	Interest on the value of land (2,00,000) @ 10 tk/annum for 6 months.	10,000
03.	Miscellaneous overhead cost (5% of total input cost).	3,826.75

Total- 17,653.5 tk.

- Total overhead cost- 17,653 tk.
- Total cost- $(A+B+C)= 59,000+17,535+17,652= 94,188$ tk.

D. Gross Income-

Sl. no	Products and By-products	Yield (kg)	Value (tk)	Income (tk)
01.	Grain	5,500	20	1,10,000
02.	Straw	6,000	1	6,000

Total-1,16,000 tk.

- Total gross income- 1,16,000 tk.
- Net profit- $1,16,000-94,188= 21,812$ tk.
- CPUP- $(94,188-6,000)/5,500= 16.03$ tk.

02. Production cost of Wheat

A. Non-material input cost/Operational cost-

Sl. No	Item of Operations	Pairs of bullock (200tk/pair)	No. of labour (200 tk/la.)	Cost/ha
01	Preparation of land by 5 ploughing,cross ploughing and laddering.	$5 \times 7=35$	35	14,000
02.	Trimming of ails,spading of corner,breaking of clods and removal of weeds and stubble.	-	6	1,200
03	Application of manure and fertilizer.	-	3	600

04.	Seed treatment and sowing of seeds in line.	-	25	5,000
05.	Driving away the birds from the field (6) days.		6	1,200
06.	2 weeding.	-	25X2=50	10,000
07.	2 irrigation.	-	2X4= 8	1,600
08.	Top dressing of fertilizer; Top dressing of Urea and spraying of pesticides.		3	600
09.	Harvesting and Carrying.	-	30	6,000
10.	Threshing,cleaning,drying and storing.	3	35	7,600
11.	Heaping of straw.	-	5	1,000

Total- 48,800 tk.

- Total Non-material input cost- 48,800 tk.

B. Material input cost-

Sl. no	Name of inputs	Quantity required (kg/ha)	Price/rate (tk/kg)	Cost/ha (tk)
01.	Seeds	140	35	4,900
02.	A.Urea	240	16	3,840
	B.TSP	190	35	6,650
	C.MoP	75	14	1,050
03.	Pesticides			500
04.	Irrigation			5,000
05.	Miscellaneous			500

Total- 22,440 tk.

- Total material input cost-22,440 tk.
- Total input cost- 48,800+22,440 tk= 71,240 tk.

C. Overhead Cost-

Sl. no	Items	Cost/ha (tk)
01.	Interest on total input cost @ 10 tk/annum for a period of 6 month's.	3,562
02.	Interest on the value of land (2,00,000) @ 10 tk/annum for 6 months.	10,000
03.	Miscellaneous overhead cost (5% of total input cost).	3,562

Total- 17,124 tk.

- Total overhead cost- 17,124 tk.

- **Total cost- (A+B+C)= 71,240+17,124= 88,364 tk.**

D. Gross Income-

Sl. no	Products and By-products	Yield (kg)	Value (tk)	Income (tk)
01.	Grain	4,500	25	1,12,500
02.	Straw	4,500	1	4,500

Total-1,17,000 tk.

- Total gross income- 1,17,000 tk.
- **Net profit- 1,17,000-88,364= 28,636 tk.**
- **CPUP-(88,364 tk-4,500 tk)÷4,500= 18.63 tk.**

03. Production cost of Maize

A. Non-material input cost/Operational cost-

Sl. No	Item of Operations	Pairs of bullock (200tk/pair)	No. of labour (200 tk/la.)	Cost/ha
01	Preparation of land by 5 ploughing,cross ploughing and laddering.	5X7=35	35	14,000
02.	Trimming of ails,spading of corner,breaking of clods and removal of weeds and stubble.	-	10	2,000
03	Application of manure and fertilizer.	-	3	600
04.	Sowing of seeds in line.	-	25	5,000
05.	Driving away the birds from the field (7) days.		7	1,400
06.	3 weeding.	-	3X15= 45	9,000
07.	3 irrigation.	-	3	600
08.	Top dressing of Urea.		6	1,200
09.	Application of pesticides.		4	800
10.	Roughing.		6	1,200
11.	Stalking.		6	1,200
12.	Harvesting and Carrying.	-	30	6,000
13.	Threshing,cleaning,drying and storing.		40	8,000

Total- 51,000 tk.

- Total Non-material input cost- 51,000 tk.

B. Material input cost-

Sl. no	Name of inputs	Quantity required (kg/ha)	Price/rate (tk/kg)	Cost/ha (tk)
01.	Seeds	100	30	3,000
02.	A.Urea	300	16	4,800
	B.TSP	200	35	7,000
	C.MoP	125	14	1,750
	D.Gypsum	125	8	1,000
03.	Pesticides			500
04.	Irrigation			5,000
05.	Miscellaneous			500

Total- 23,550 tk.

- Total material input cost-23,550 tk.
- Total input cost-51,000+23,550 tk= 74,550 tk.

C. Overhead Cost-

Sl. no	Items	Cost/ha (tk)
01.	Interest on total input cost @ 10 tk/annum for a period of 6 month's.	3,727.5
02.	Interest on the value of land (2,00,000) @ 10 tk/annum for 6 months.	10,000
03.	Miscellaneous overhead cost (5% of total input cost).	3,727.5

Total- 17,455 tk

- Total overhead cost- 17,455 tk.
- Total cost- (A+B+C)= 74,550+17,455 tk= 92,005 tk.

D. Gross Income-

Sl. no	Products and By-products	Yield (kg)	Value (tk)	Income (tk)
01.	Grain	5,000	20	1,00,000
02.	Straw	7,500	4	30,000

Total-1,30,000

- Total gross income- 1,30,000 tk.
- Net profit- (1,30,000-92,005)= 37,995 tk.
- CPUP-(92,005-30,000)÷5,000 tk= 12.41 tk.

04. Production Cost of Tobacco

A. Non-material input cost/Operational cost-

Sl. No	Item of Operations	Pairs of bullock (200tk/pair)	No. of labour (200 tk/la.)	Cost/ha
01.	Preparation of nursery bed of 1 hectare of land.		30	6,000
02.	Preparation of land by 6 ploughing,cross ploughing and laddering.	6X7=42	42	16,800
03.	Application of fertilizer.		2	400
04.	Trimming of ails,spading of corner,breaking of clods and removal of weeds and stubble	-	10	2,000
05.	Uprooting and transplanting of seedlings in rows.	-	25	5,000
06.	Watering and shedding (3 days).		21	4,200
07.	Weeding and Top dressing of Urea.	-	50	10,000
08.	Topping and Suckering (3 times).		21	4,200
19.	Leaf collecting and carrying.		21	4,200
10.	Cutting.		40	8,000
11.	Curing.		35	7,000
12.	Bulking and grading leaves.		15	3,000

Total- 70,800 tk.

- Total Non-material input cost- 70,800 tk.

B. Material input cost-

Sl. no	Name of inputs	Quantity required (kg/ha)	Price/rate (tk/kg)	Cost/ha (tk)
01.	Seeds	0.9	400	360
02.	A.Urea	100	16	1,600
	B.TSP	110	35	3,850
	C.K ₂ SO ₄	75	25	1,875
03.	Pesticides			500
04.	Irrigation			4,000

05.	Miscellaneous			500
-----	---------------	--	--	-----

Total- 12,685 tk.

- Total material input cost-12,685 tk.
- Total input cost- 70,800+12,685 tk= 83,485 tk.

C. Overhead Cost-

Sl. no	Items	Cost/ha (tk)
01.	Interest on total input cost @ 10 tk/annum for a period of 6 month's.	4,174.25
02.	Interest on the value of land (2,00,000) @ 10 tk/annum for 6 months.	10,000
03.	Miscellaneous overhead cost (5% of total input cost).	4,174.25

Total- 18,348.5 tk.

- Total overhead cost- 18,348.5 tk.
- Total cost- (A+B+C)= (70,800+12,685+18,348.5)= 1,01,833.5 tk.

D. Gross Income-

Sl. no	Products and By-products	Yield (kg)	Value (tk)	Income (tk)
01.	Tobacco leaf	900	140	1,26,000
02.	Straw	1,500	5	7,500

Total-1,33,500 tk.

- Total gross income- 1,33,500 tk.
- Net profit- =1,33,500-1,01,833 tk= 31,667 tk.
- CPUP- (1,01,833-7,500)÷900= 104 tk.

Mahbubul Alam.

Crop Science & Technology-2012-13.

University of Rajshahi.